

CDMA-1XEVDO REV.B MOBILE HOT-SPOT

User's Manual

Version 1.2

April 2013

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Preface

This manual describes the Web User Interface of the mobile hot-spot. This document provides a complete guide to configure and use the mobile hot-spot.

Audience

Target audiences are the customers who configure and administer the mobile hot-spot. This manual makes it easier for the customers to enhance the offerings or to customize the mobile hot-spot to their own services.

Typographic Conventions

This manual uses the following conventions.

[Table 1] Typographic Conventions

Item	Convention
Keys	Boldface
Field Names	Boldface
Screen Names	Boldface
Screen Elements	Boldface

Acronyms

This manual uses the following acronyms.

[Table 2] Acronyms

Acronym	Meaning
LAN	Local Area Network
IP	Internet Protocol
WAN	Wide Area Network
WWAN	Wireless Wide Area Network
SSID	Service Set Identifier
DNS	Domain Name Server
RSSI	Received Signal Strength Indicator
DRC	Data Rate Control
DHCP	Dynamic Host Configuration Protocol
BSSID	Basic Service Set Identifier
WPA	Wi-Fi Protected Access
WEP	Wired Equivalent Protocol
PPP	Point-to-Point Protocol
NAT	Network Address Translation

1. Introduction

1.1 Package Contents

- Mobile Hot-Spot
- Power Adapter
- Car Charger
- Quick Guide
- Battery

1.2 Mobile Hot-Spot Interfaces



[A] Antenna: Sub antenna for diversity

[B] Display: OLED display for CDMA and hot-spot status icons and messages

[C] Power button: Power on/off by pressing for more than 3 seconds. Also a status indicator by 3-color LED

[D] Power adaptor connection: Connector for battery charging (Only use the USB cable and the 5.0-volt power adaptor and car charger supplied in the package box)

[E] Antenna: Main Antenna

[F] External antenna connection: Connector for an external antenna for poor signal area

[G] Battery cover

[H] Battery: Removable battery (Li-Ion 2000mAh)

[I] Reset button: Push button to automatically power down the mobile hot-spot when pressed for more than 2 seconds and released. After re-powering on, the configuration is restored into the factory-default value

1.3 Display Icons

Icons	Description
	Strength of the CDMA signal (levels 0 ~6)
	Internet (data call) connection status
	No service status
	Wi-Fi on/off status
	Battery level
	Battery charging indicator while charging

1.4 Battery Time

Conditions	Description
Continuous use	3.5 hours while using in good signal status
Stand-by	8 hours
Charging	3.5 hours from empty to full charge with power off 5 hours with power on

1.5 Display Messages

Messages	Description
Net1	Operator name displayed while booting
Net1 M-90 1234	SSID displayed when entering into normal operation ("1234" is an example)
No Service	Displayed when mobile hot-spot could not find the CDMA network
12345678	Wi-Fi key displayed when user short-press the power button ("12345678" is an example)
CONNECTING...	Displayed when mobile hot-spot is trying to make a data call
CONNECTED	Displayed when mobile hot-spot successfully made a data call
CONNECTION FAIL	Displayed when mobile hot-spot fails to make a data call

1.6 Power Button LED Colors

Color	Mode	Status
Red	Blinking	Low battery (below 10%)
	Steady on	No service
Blue	Blinking	Trying to connect to the CDMA network
	Steady on	Connected to the CDMA network and in service state
Purple	Blinking	Waking up from the power saving/Stand-by mode
	Steady on	Power saving/Stand-by mode

1.7 Technical Specifications

Parameters	Specifications
Size	54.5 x 103.2 x 17.2mm
Weight	110g
Battery Type	3.7V Polymer
Operating Temperature	-20 to +70°C
Storage Temperature	-30 to +80°C
Humidity	85% Non-condensing
Stand-by Time	8 hours
Usage Time	3.5 hours
Adaptor Input	100 ~ 240VAC 50/60Hz 0.15A
Adaptor Output	5VDC 1A

2. Getting Started

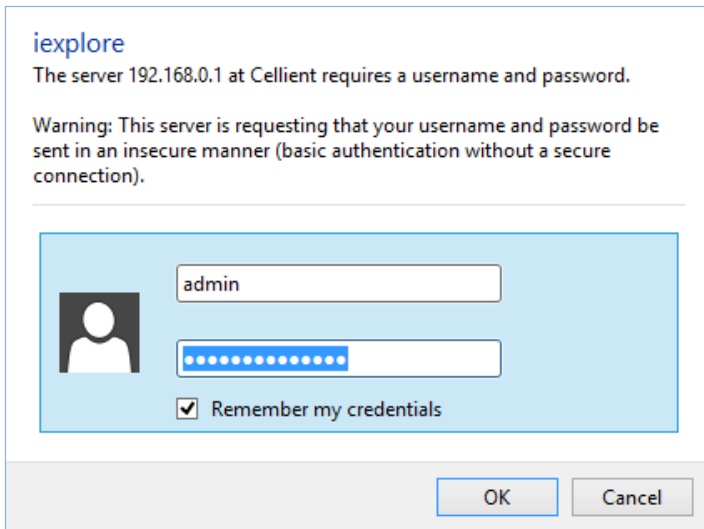
This section explains how to configure the mobile hot-spot using the Web User Interface (Web-UI) provided. This document assumes that you already have the mobile hot-spot and are now ready to do the configuration (i.e., power on, connected to the CDMA network, Wi-Fi on, etc.) You need to use the administrator right to configure all the options available on the Web-UI.

First, you type in the following URL into the web browser on your client device connected to the mobile hot-spot.
<http://192.168.0.1>

2.1 Logging on to the Web-UI

To log on to the mobile hot-spot Web-UI, you must have a valid user name and password. The user name and the password can be changed using Web-UI. When you log on to the mobile hot-spot Web-UI, the **USER LOGIN** window is displayed as shown in **Figure 1**.

[Figure 1] Web-UI Login window

The image shows a web browser window titled 'iexplore' displaying the login page for the mobile hot-spot Web-UI. The address bar shows 'The server 192.168.0.1 at Cellient requires a username and password.' Below this, a warning message states: 'Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).' The login form has a light blue background and contains a user icon, a text box with 'admin' entered, a password box with dots, and a checked checkbox labeled 'Remember my credentials'. At the bottom of the form are 'OK' and 'Cancel' buttons.

- Enter your User ID in the **User** text box. For an admin user, the default User ID is “**admin**”.
- Enter your password in the **Password** text box. The default password is “**admin**”.
- Click “**OK**” to begin the configuration or click “**Cancel**” to exit from this setup.

2.2 Configuration Menu

The Homepage is the first screen displayed when you log on to the mobile hot-spot Web-UI as shown in **Figure 2**.

Configuration Pages

The configuration menu for mobile hot-spot is show on the left side of the homepage.

It allows you to configure functions like Internet, Wi-Fi, etc. Each link is found under the top directory. The following modules are displayed in the left navigation pane.

- **Internet**
- **Wi-Fi**
- **Firewall**
- **Administration**

2.3 Overview

The mobile hot-spot Web-UI is displayed as shown in **Figure 2**. The screen is refreshed every 30 seconds.

[Figure 2] Web-UI Homepage

 Open all Close all MHN-200 Internet WI-FI Firewall Administration	OVERVIEW	
	SYSTEM	
	Device Name	Net1 M-90 3907
	Battery Level	68% 
	Firmware Version	VER-1.04.61 Feb-05-2013 15:31:32
	CDMA Version	q6695-SWE-3134 Feb-05-2013 05:46:43
	Modem ESN	12345678
	INTERNET	
	Connection Status	Connected
	WAN IP Address	46.230.221.112
	Subnet Mask	255.255.255.255
	Default Gateway	178.72.0.64
	Primary DNS	213.248.100.54
	Secondary DNS	209.95.129.122
	LOCAL NETWORK	
	Local IP Address	192.168.0.1
	MAC Address	64:62:23:99:90:23

The screen contains following details.

[Table 3] Fields in the Homepage

Field	Description
SYSTEM	
Device Name	Current SSID of Wi-Fi interface
Battery Level	Current level of battery
Firmware Version	Current software version of mobile hot-spot
CDMA Version	Current CDMA Modem version
Modem ESN	Current CDMA Modem ESN(Electronic Serial Number)
INTERNET	
Connection Status	Data call connection status
WAN IP Address	IP address of WWAN interface
Subnet Mask	Subnet mask of WWAN interface
Default Gateway	IP address of Gateway
Primary DNS	IP address of the Primary DNS server
Secondary DNS	IP address of the Secondary DNS server
LOCAL NETWORK	
Local IP Address	Local IP address of LAN
MAC Address	Device hardware address

3. Internet

You can view **Internet** link in the left navigation pane. Followings are the options available under **Internet**.

- **Network Information**
- **LAN Settings**
- **Clients List**
- **CDMA Settings**

3.1 Network Information

To get information of Network, click **Network Information** link. A screen is displayed as shown in **Figure 3**. The screen is refreshed every 15 seconds.

[Figure 3] Network Information

net1

[Open all](#) [Close all](#)

- MHN-200
 - Internet
 - Network Information**
 - LAN Settings
 - Clients List
 - CDMA Settings
 - WI-FI
 - Firewall
 - Administration

NETWORK INFORMATION

NETWORK	
Service Mode	CDMA EVDO Rev.B
Mode Preference	EVDO Only
Packet State	Active in a HDR system
Carriers	3
Total DRC	6.1 Mbps

CARRIER 1	
Channel	225
RSSI	-79
EcIo	-2
PN	352
DRC	1536.0 Kbps

CARRIER 2	
Channel	174
RSSI	-78
EcIo	-1
PN	352
DRC	3072.0 Kbps

CARRIER 3	
Channel	275
RSSI	-79
EcIo	-2
PN	352
DRC	1536.0 Kbps

The screen contains the following details:

[Table 4] Fields in Network Information

Field	Description
NETWORK	
Service Mode	Service information can be: • No Service • 1X • EVDO in network Rev. 0 • EVDO in network Rev. A • EVDO in network Rev. B
Mode Preference	Shows the service mode which can be: • Hybrid • 1X Only • EVDO Only
Packet State	Current packet state of modem
Carriers	Current count of assigned multi-carrier
Total DRC	Total network assigned data rate of carriers
CARRIER [#]	
Channel	Current CDMA channel number
RSSI	RSSI value (Unit: -dBm). The bigger the number is, the weaker the received signal is. 255(0xff) means no signal
EcIo	Current signal level (Unit: dB)
PN	Pilot PN of current CDMA network cell
DRC	Data rate of each carrier

3.2 LAN Settings

To configure LAN settings, click **LAN Settings** link. A screen is displayed as shown in **Figure 4**.

[Figure 4] LAN Settings

1 net 1

[Open all](#) [Close all](#)

MHN-200

- Internet
- Network Information
- LAN Settings**
- Clients List
- CDMA Settings
- WI-FI
- Firewall
- Administration

LAN SETTINGS

LAN INTERFACE SETUP

IP Address	192 . 168 . 0 . 1
Subnet Mask	255 . 255 . 255 . 0
MAC Address	64:62:23:99:90:15
DHCP IP Range	192 . 168 . 0 . 100 - 109
DHCP Lease Time	86400 Seconds

The screen contains the following details.

[Table 5] Fields in LAN Settings

Field	Description
IP Address	Current local IP address. If changed, you should reconnect mobile hot-spot.
Subnet Mask	Current subnet mask. You can change according to IP class.
MAC Address	Shows the mobile hot-spot hardware address.
DHCP IP Range	Current DHCP IP range. You can increase accessible user count.
DHCP Lease Time	Current DHCP lease time of allocated DHCP IP address.

- Click “**Apply**” at any time during configuration to save the information that you have entered.
- Click “**Cancel**” to exit from this page without saving the changes.

Caution:

- If you have changed the local IP address of mobile hot-spot, you must input the new IP address in the address field of your browser in order to access the Web-UI.
- If the old and the new IP addresses of mobile hot-spot belong to different subnets (for example, if the old address is 192.168.0.1 and the new address is 192.168.1.1), then IP addresses of computers connected mobile hot-spot will also change. In this case you should refresh the IP address of your computer in the Windows Network Connections, or simply disconnect your computer from mobile hot-spot and then re-connect again.

3.3 Clients List

To view the Clients List, click **Clients List** link. A screen is displayed as shown in **Figure 5**.

[Figure 5] Clients List



The screen contains the following details.

[Table 6] Fields in Clients List

Field	Description
IP Address	IP address of Client
MAC Address	MAC Address of Client

3.4 CDMA Settings

To configure CDMA parameters, click **CDMA Settings** link. A screen is displayed as shown in **Figure 6**.

[Figure 6] CDMA Settings

The screenshot shows the 'CDMA SETTINGS' page. On the left is a sidebar with a tree view. The main content area has a blue header 'CDMA SETTINGS' and a sub-header '3G CONFIGURATIONS'. Below this are three input fields: 'Dial Number' with value '#777', 'Username' with value 'cdma', and 'Password' with value 'cdma'. At the bottom are 'Apply' and 'Cancel' buttons.

The screen contains the following details:

[Table 7] Fields in CDMA Settings

Field	Description
Dial Number	Dial-Up number for CDMA data call
Username	Username for CDMA data call
Password	Password for CDMA data call

- Click **“Apply”** at any time during configuration to save the information that you have entered.
- Click **“Cancel”** to exit from this page without saving the changes.

4. Wi-Fi

You can view Wi-Fi link in the left navigation pane. Followings are the options available under **WI-FI**.

- **Settings**
- **Security**

Caution:

- After changing any of the Wi-Fi settings, you must normally reconnect over Wi-Fi in order to access the Internet and the Web-UI.

4.1 Settings

You can configure basic Wireless Settings for communication, such as Network Name (SSID) and Channel.

To configure the Wi-Fi interface, click **Settings** link. A screen is displayed as shown in **Figure 7**.

[Figure 7] Wireless Settings

The screenshot shows the 'WI-FI SETTINGS' window for a Net1 M-90 device. On the left, a navigation pane lists 'Internet', 'WI-FI', 'Settings' (highlighted), 'Security', 'Firewall', and 'Administration'. The main panel has a blue header 'WI-FI SETTINGS' and a sub-header 'Wireless Network'. Below this, several configuration fields are listed: 'Network Mode' (11b/g mixed mode), 'Network Name(SSID)' (Net1 M-90 0788), 'BSSID' (64:62:23:00:03:14), 'Frequency (Channel)' (AutoSelect), 'Auto Selected Frequency' (Channel 3), and 'Rate' (Auto). 'Apply' and 'Cancel' buttons are at the bottom.

The screen contains the following details.

[Table 8] Fields in Wi-Fi Settings

Field	Description
Network Mode	Choose a mode from the pull-down menu. Make sure that you have the equipment that supports selected mode. As you're looking for products in stores or on the internet, you might notice that you can choose equipment that supports five different combinations of Wi-Fi networking technologies: 802.11b/g/n Mixed, 802.11b/g Mixed, 802.11b and 802.11g.
Network Name(SSID)	Specify the network name. Each Wireless LAN network uses a unique Network Name to identify the network. This name is called the Service Set Identifier (SSID). When you set up your wireless adapter, you specify the SSID. If you want to connect to an existing network, you must make up your own name and use it on each computer. The name can be up to 17 characters long and contain letters and numbers. Default name is the mobile hot-spot's S/N.
BSSID	MAC address of this wireless router.
Frequency(Channel)	Select 1~14 or AutoSelect from the pull-down menu.
Auto Selected Frequency	If AutoSelect is used, this field displays the current channel.

Rate	Specify the channel bandwidth.
------	--------------------------------

- Click **“Apply”** at any time during configuration to save the information that you have entered.
- Click **“Cancel”** to exit from this page without saving the changes.

4.2 Security

To configure the Wi-Fi Security, click **Security** link. A screen is displayed as shown in **Figure 8**.

[Figure 8] Wireless Security

The screen contains the following details.

[Table 9] Fields in Wi-Fi Security

Field	Description
Net1 M-90 3893 (“3893” is an example)	
Security Mode	Used to specify the WLAN security mode: • Disable: No security mode. Disabled mode is the default setting. • OPENWEP: Enables your client adapter to authenticate and communicate with the mobile hot-spot. • SHAREDWEP • WEPAUTO: Wired Equivalent Protocol (WEP) is a standardized and widely used data encryption method that can make wireless networks as secure as wired networks. • WPA • WPA-PSK • WPA2 • WPA2-PSK • WPAPSKPA2PSK • WPA1WPA2 • 802.1X
WPA	

WPA Algorithms	Select TKIP, AES, or TKIPAES
Pass Phrase	Input Pass Phrase (also called Password or Key)
Key Renewal Interval	Key Renewal Interval time
ACCESS POLICY	
Policy	Select “Disable” to de-activate the Access Policy; select “Allow” to allow specific device(s) to connect to the mobile hot-spot; select “Reject” to prevent specific device(s) from connecting to the mobile hot-spot.
Add a station MAC Address:	Space to enter the MAC address of a device that is allowed to connect to the mobile hot-spot. Multiple MAC addresses may be entered by clicking the “Apply” button one after another.

- Click “**Apply**” at any time during configuration to save the information that you have entered.
- Click “**Cancel**” to undo any changes.

The following table shows the availability of various combinations of Wi-Fi security parameters depending upon the authentication type and encryption type chosen.

[Table 10] Availability of Wireless Security Features

Authentication Type	Encryption Type	Key(s)	Radius Server Setup	WPA
Open Authentication	No encryption type	No	No	No
Open Authentication	WEP 64 (10 digits)	Yes	No	No
Open Authentication	WEP 128 (26 digits)	Yes	No	No
Shared Authentication	No encryption type	No	No	No
Shared Authentication	WEP 64 (10 digits)	Yes	No	No
Shared Authentication	WEP 128 (26 digits)	Yes	No	No
WPA-TLS	Standard 802.1X (WEP)	No	Yes	Yes
WPA-TLS	TKIP	No	Yes	Yes
WPA-TLS	AES-CCMP	No	Yes	Yes
WPA-PSK	TKIP	No	No	No
WPA-PSK	AES-CCMP	No	No	No
WPA2-TLS	AES-CCMP	No	Yes	Yes
WPA2-TLS	TKIP/AES-CCMP	No	Yes	Yes
WPA2-PSK	AES-CCMP	No	No	No
WPA2-PSK	TKIP/AES-CCMP	No	No	No

5. Firewall

You can view Firewall link on the left navigation pane. Following are the options available under Firewall.

- **Port Forwarding**
- **Virtual Server**

5.1 Port Forwarding

To configure Port Forwarding, click **Port Forwarding** link. A screen is displayed as shown in **Figure 9**:

[Figure 9] Port Forwarding

The screenshot shows the 'PORT FORWARDING' configuration page. On the left, a navigation pane lists 'MHN-200' with sub-items: Internet, WI-FI, Firewall (selected), Port Forwarding (highlighted), Virtual Server, and Administration. The main content area has a blue header 'PORT FORWARDING' with a note 'The maximum rule count is 32.' Below this is the 'FORWARDING SETTING' section with the following fields: 'Forwarding' (set to 'Disabled'), 'IP Address' (empty text box), 'Port Range' (empty text box with a hyphen), 'Protocol' (set to 'TCP&UDP'), and 'Comment' (empty text box). 'Apply' and 'Reset' buttons are below these fields. At the bottom is a section titled 'CURRENT PORT FORWARDING IN SYSTEM' containing a table with columns: No., IP Address, Port Range, Protocol, and Comment. Below the table are 'Delete Selected' and 'Reset' buttons.

The screen contains the following details.

[Table 11] Fields in Port Forwarding

Field	Description
Forwarding	To enable or disable the port forwarding
IP Address	To enter the IP Address of a specified local machine
Port Range	To assign a range of port or specific port number to route the packets
Protocol	To assign protocol type of the packets
Comment	To add a comment

- Click **“Apply”** at any time during configuration to save the information that you have entered.
- Click **“Reset”** to undo any changes.

5.2 Virtual Server

To enable Virtual Server, click **Virtual Server** link. A screen is displayed as shown in **Figure 10**:
[Figure 10] Port Forwarding

net1

[Open all](#) [Close all](#)

- MHN-200
 - Internet
 - WI-FI
 - Firewall
 - Port Forwarding
 - Virtual Server**
 - Administration

VIRTUAL SERVER

The maximum rule count is 32.

VIRTUAL SERVER SETTING

Virtual Server	Disabled ▼
IP Address	
Public Port	
Private Port	
Protocol	TCP&UDP ▼
Comment	

CURRENT VIRTUAL SERVERS IN SYSTEM

No.	IP Address	Public Port	Private Port	Protocol	Comment
-----	------------	-------------	--------------	----------	---------

The screen contains the following details.

[Table 12] Fields in Virtual Server

Field	Description
Virtual Server	To enable or disable the virtual server.
IP Address	To enter the IP Address of a specified local machine
Public Port	To assign a specific port number to route the packets
Private Port	To assign a user setting or specific port number to route the packets
Protocol	To assign protocol type of the packets
Comment	To add a comment

- Click **“Apply”** at any time during configuration to save the information that you have entered.
- Click **“Reset”** to undo any changes.

6. Administration

You can view the **Administration** link on the left navigation pane. Followings are the options available under System.

- **Management**
- **Upgrade**
- **Settings**
- **Manual**

6.1 Management

To change user ID and the password for the administrator, click **Management** link. A screen is displayed as shown in **Figure 11**.

[Figure 11] System Management

net1

[Open all](#) [Close all](#)

MHN-200

- Internet
- WI-FI
- Firewall
- Administration
 - Management**
 - Upgrade
 - Settings
 - Manual

SYSTEM MANAGEMENT

LANGUAGE SETTINGS

Select Language: English

Apply Cancel

ADMINISTRATOR SETTINGS

Account: admin

Password:

Apply Cancel

GENERAL SETTINGS

Shut off LCD display after 2 minutes

Go to sleep mode when I've been inactive for 1 minutes

Apply Cancel

This menu does not add new user but makes user ID and the password change.

Only 1 administrator is available on the mobile hot-spot.

The screen contains the following details:

[Table 13] Fields in Administrator Settings and General Settings

Field	Description
ADMINISTRATION SETTINGS	
Account	A new name which will be used to access the Web-UI
Password	A new password which will be used to access the Web-UI
GENERAL SETTINGS	
Shut off LCD display after "2" minutes	Time for automatic display shut off
Go to sleep mode when I've been inactive for "1" minutes	Time for going into the sleep mode when there are no devices connected over Wi-Fi

- Click **“Apply”** at any time during configuration to save the information that you have entered.
- Click **“Cancel”** to undo any changes.

6.2 Upgrade

To upgrade the system firmware, click on the **Upgrade** link. A screen is displayed as shown in **Figure 12**.

[Figure 12] Firmware Upgrade

- After choosing a system firmware file, click **“Apply”** to start the firmware upgrade.

6.3 Settings

To update the system configuration or to get the current configuration, click **Settings** link. A screen is displayed as shown in **Figure 13**.

[Figure 13] Configuration Setting

- Click **“Export”** to save the current configuration to a file.
- Click **“Import”** to load configuration from a file.
- Click **“Browse”** to select a specified file name to change the configuration.
- Click **“Load Default”** to go back to factory default settings. **In this case, you lose all your own settings.**

6.4 Manual

The link to view this User’s Manual

7. Default Configuration

7.1 Hostname

SSID	Net1 M-90 1234	See the OLED display or the label inside the battery cover ("1234" is an example)
Security mode	Security mode	WPA2-PSK
Password	12345678	Click button and see the Display LCD or label ("12345678" is an example)

7.2 User IP Address

IP Address	192.168.0.100 — 192.168.1.109
Default Gateway	192.168.0.1
DNS Server	Network assigned DNS server

7.3 Web Server

IP Address	192.168.0.1
Username	admin
Password	admin

7.4 Other Settings

DHCP server	Enabled
NAT	Disabled
MODEM PPP	Automatically Started

Note: User can connect through Wi-Fi, get IP address, default gateway and DNS server address and can use internet without any more configuration.

7.5 PPP Information

Access ID	cdma
Password	cdma
Authentication	chap-pap
Dial Number	#777

8. Troubleshooting

8.1 I forgot Login ID and Password / I forgot IP address after changing IP address

Use your mobile hot-spot after restoring the configuration into factory-default value.

How to restore the configuration?

- Press “reset” button for more than 2 seconds and release in normal status.
- User can see Power Button LED is blinking.
- After about 15 seconds, mobile hot-spot is automatically turned off.
- When re-powered on, you can see the configuration is changed to the factory-default value on Web-UI.

Caution: Please make sure mobile hot-spot has enough battery level when factory resetting is performed.

8.2 I cannot connect to the Internet

User should check the displayed icons and messages.

If Received Signal Strength Indicator icon (📶) is not displayed, please refer to below Section 8.2.1.

Check whether Wi-Fi icon (📶) is displayed.

8.2.1 Check Wi-Fi

Check if the Wi-Fi icon (📶) is displayed.

If the Wi-Fi icon is on, connect to the mobile hot-spot by correct SSID. SSID value is different for each mobile hot-spot to avoid interference. So, each mobile hot-spot has a unique SSID such as “Net1 M-90 1234”.

If Wi-Fi is connected, ping to mobile hot-spot’s LAN IP address (default: 192.168.0.1).

If ping is not OK, check if SSID is correct, and if Wi-Fi security is configured.

If ping is OK, refer to below Section 8.2.2.

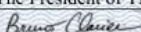
8.2.2 Check CDMA

Check whether the Received Signal Strength Indicator icon (📶) is displayed.

If Received Signal Strength Indicator icon is not displayed, check if the retractable antennas are fully pulled out or check the status of PPP.

If WWAN (data call) connection status icon (📶) is displayed, PPP connection is established. If not, please check other configurations on the Web-UI or network configuration of your client device.

9. CE Certificate

Notified Body Number 1177	
NOTIFIED BODY STATEMENT OF OPINION R&TTE DIRECTIVE 1999/5/EC Conformity assessment procedure Article 10(4) and Annex IV	
PRODUCT DESCRIPTION	
Manufacturer Name :	Cellient Co., Ltd.
Manufacturer Address :	#504, 6F Glass Tower, 366-4 Yatap-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-070, Korea
Brand/Trade Name :	
Model/Type Designation :	MHN200
Product Description :	CDMA Mobile HOT-SPOT
Product Specifications :	Please refer to ANNEX 1
TECHNICAL CONSTRUCTION FILE	
Applicant Name :	Cellient Co., Ltd.
Applicant Address :	#504, 6F Glass Tower, 366-4 Yatap-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-070, Korea
Signed by :	Joonsug Chung / President & CEO
Date :	April 11, 2013
TCF Identification :	DRF-C1304AQ
TIMCO NOTIFIED BODY STATEMENT OF OPINION	
Issued by :	Notified Body 1177, TIMCO Engineering, Inc.
Date :	April 19, 2013
Opinion number :	TCF-622KC13
On behalf of :	The President of TIMCO Engineering, Inc.
Signature :	
Name :	Bruno Clavier
The device shall be marked as follows: CE 1177	
THIS STATEMENT OF OPINION HAS 1 ANNEX.	
Based on the evidence presented in the Technical Construction File, TIMCO Engineering, Inc., as appointed Notified Body (number 1177), has given a positive opinion that the product described is in conformity with the essential requirements Article 3.2 of R&TTE Directive 1999/5/EC.	
TIMCO ENGINEERING, INC. P.O. BOX 370 NEWBERRY, FL 32669 www.timcoengr.com	Designated as a U.S. CAB by NIST National Institute of Standards and Technology An agency of the U.S. Commerce Department
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ANNEX 1 TO STATEMENT OF OPINION

TCF-622KC13

Date: April 19, 2013

PRODUCT SPECIFICATIONS

Intended Use/Category	:	CDMA450 Mobile Station
RF output power	:	24.31dBm EIRP
Frequency band (MHz)	:	452.5 ~ 456.475
Modulation	:	-
Antenna type	:	Dipole Antenna

Intended Use/Category	:	SRD – Wideband data transmission system (WLAN)
RF output power	:	18.95dBm EIRP
Frequency band (MHz)	:	2412-2472
Modulation	:	OFDM
Antenna type	:	Internal Antenna
Duty cycle (%)	:	11n (HT20): 100 %